Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application. Applicants have submitted a new complete claim set showing any marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Listing of Claims:

1. (Currently Amended)   A computer-readable <u>storage</u> medium having computer-executable instructions<u>, that when executed on a computing system, perform</u> ~~for performing~~ the step of exposing an interface for providing communication with a demultiplexer object <u>which takes multiplexed multimedia data as input and outputs demultiplexed elementary media streams</u>, the interface ~~including~~ <u>comprising</u>:

    an Initialize method to configure the demultiplexer object;

    a SetPresentationDescriptor method to dynamically set an active presentation descriptor on the demultiplexer object;

    a ProcessInput method to provide a new input muxed stream to the demultiplexer object;

    a ProcessOutput method to retrieve at least one elementary stream from an active presentation <u>determined based on the dynamically set active presentation descriptor</u>; and

    a Flush method to flush currently queued input and output samples.

2. (Currently Amended)   The computer-readable <u>storage</u> medium of claim 1 wherein the interface further comprises a GetPresentationDescriptor method to retrieve a clone of the currently active presentation descriptor on the demultiplexer object.

3. (Currently Amended)   The computer-readable storage medium of claim 2 wherein the GetPresentationDescriptor method includes a presentation descriptor.

4. (Currently Amended)   The computer-readable storage medium of claim 1 wherein the interface further comprises a GetPendingPresentationDescriptor method to retrieve the next pending presentation.

5. (Currently Amended)   The computer-readable storage medium of claim 4 wherein the GetPendingPresentationDescriptor method includes a pending presentation descriptor.

6. (Currently Amended)   The computer-readable storage medium of claim 1 wherein the Initialize method includes parameters, the parameters comprising:
        a muxed stream descriptor;
        a selected media type for the muxed stream descriptor;
        an array of major types of elementary streams; and
        a count of major types in the array of major types.

7. (Currently Amended)   The computer-readable storage medium of claim 1 wherein the SetPresentationDescriptor method includes a pointer to a presentation descriptor object.

8. (Currently Amended)   The computer-readable storage medium of claim 1 wherein the ProcessInput method includes a pointer to a sample object.

9. (Currently Amended)   The computer-readable storage medium of claim 8 wherein the ProcessInput method further includes a return value having a new presentation flag.

10. (Currently Amended)   The computer-readable storage medium of claim 9 having further computer executable instructions for performing the steps comprising:

if the new presentation flag has a TRUE value:

calling a GetPendingPresentationDescriptor method to retrieve the next pending presentation;

selecting desired streams; and

calling the SetPresentationDescriptor method to enable processing of samples from the demultiplexer's input queue.

11. (Currently Amended)   The computer-readable storage medium of claim 1 wherein the ProcessOutput method includes a stream identifier and a pointer to a pointer to a sample object.

12. (Currently Amended)   The computer-readable storage medium of claim 11 wherein the ProcessOutput method further includes an output return value.

13. (Currently Amended)   The computer-readable storage medium of claim 12 wherein the output return value includes one of an end of stream error code and a no more data error code.

14. (Currently Amended)   The computer-readable storage medium of claim 1 wherein the interface takes multiplexed data as an in-memory buffer of data.

15. (Currently Amended)   The computer-readable storage medium of claim 14 wherein the multiplexed data has a format comprising at least one of Digital Video, MPEG2, and ASF.

16. (Currently Amended)   A computer-readable <u>storage</u> medium <u>of claim 1 further</u> having stored thereon an Initialize data structure for use in a demultiplexer, comprising:

        a first field containing a header;

        a second field containing a muxed stream descriptor;

        a third field containing a selected media type of the muxed stream descriptor;

        a fourth field containing an array of major types of elementary streams; and

        a fifth field containing a count of major types in the array of major types.

17. (Currently Amended)   A computer-readable <u>storage</u> medium <u>of claim 1 further</u> having stored thereon a SetPresentationDescriptor data structure for use in a demultiplexer, comprising:

        a first field containing a header; and

        a second field containing a presentation descriptor.

18. (Currently Amended)   A computer-readable <u>storage</u> medium <u>of claim 1 further</u> having stored thereon a GetPresentationDescriptor data structure for use in a demultiplexer, comprising:

        a first field containing a header; and

        a second field containing a presentation descriptor.

19. (Currently Amended)   A computer-readable <u>storage</u> medium <u>of claim 1</u> <u>further</u> having stored thereon a GetPendingPresentationDescriptor data structure for use in a demultiplexer, comprising:

a first field containing a header; and

a second field containing a pending presentation descriptor.

20. (Currently Amended)   A computer-readable <u>storage</u> medium<u>of claim 1</u> <u>further</u> having stored thereon a ProcessInput data structure for use in a demultiplexer, comprising:

a first field containing a header; and

a second field containing a pointer to a sample object.

21. (Currently Amended)   A computer-readable <u>storage</u> medium <u>of claim 1</u> <u>further</u> having stored thereon a ProcessOutput data structure for use in a demultiplexer, comprising:

a first field containing a header;

a second field containing a stream identifier; and

a third field containing a pointer to a point to a sample object.